

PATENT SPECIFICATION


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COMPLETE SPECIFICATION

Improvements in or relating to Dispensing Means

I, CYRIL WALTERS, a British Subject, of 274, London Road, Staines, Middlesex, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to dispensing means and is more particularly concerned with devices for dispensing disinfectant powders.

It is an object of the invention to provide an improved device for dispensing disinfectant powder, which device is adapted to be attached as a unit to a support member.

The invention provides a device for dispensing disinfectant powder in small quantities comprising a container formed in two parts and containing disinfectant powder and having a plurality of powder dispensation apertures in the wall of one part, the container being otherwise closed, and also having means provided on the other of said two parts for attaching the container as a unit to the underside of a movable support member with the dispensation apertures directed downwardly, the attachment means being such that when the container is attached to the support surface the attachment means extend between the upper face of the container and the lower face of the support surface and whereby suitable movements of the support member automatically effect dispensation of the powder.

Preferably the attachment means comprise a suction cap, and the suction cap may be secured to the container by the insertion of an enlarged head on the back of the cap through an aperture in the top of the container. The attachment means may alternatively comprise a layer of adhesive.

The said one part may be secured to the said other part by screw-thread means or by a bayonet type connection, or the two parts may be arranged to interfit partly one within the other and be secured together by means of the frictional engagement between the

interfitting portions of the parts, or the two parts may be secured, or further secured, together by means of a length of adhesive tape.

The invention includes a device, as aforesaid, attached to the undersurface of the lid of a garbage or other refuse bin.

Devices according to the invention may be formed of metal, plastic, cardboard, pottery, or other materials.

Three specific constructions of devices for dispensing disinfectant powder, and embodying the invention will now be described by way of example, with reference to the accompanying drawings in which:—

Figure 1 is a section through one form of the device, showing the device secured to a household refuse bin lid.

Figure 2 is a section through a second form of the device.

Figure 3 is a section through a third form of the device.

In the form of device shown in Figure 1, the device is generally indicated at 11. The device comprises a cup-like, cylindrical upper member 12 secured to the refuse bin lid 13 by means of a rubber suction cap 14, and a similarly shaped lower member 15. The upper wall of the member 12 is of sufficient rigidity to retain the head of the cap 14 in position. The lower member 15 is of such diameter as to interfit within the upper member 12 and is retained in position by means of the frictional engagement between the interfitting portions of the members 12, 15. The lower member 15 is provided with a plurality of perforations 16 (in this example, seven) in its base 17 through which the powder 18, contained within the chamber 19 formed by the cup-like members 12, 15, is dispensed.

It will be understood that the device 11 may be filled with powder by removing the refuse bin lid 13 and inverting it, and then removing the lower member 15 (which is now uppermost) of the device 11 and filling the upper member 12 with disinfectant powder. The

lower member 15 is then replaced and the lid returned to its normal position on the refuse bin.

It will be appreciated that the act of replacing the lid onto the refuse bin will automatically cause a small quantity of the disinfectant powder to be shaken out from the device through the perforations, into the refuse bin.

In the form of the device shown in Figure 2, the device is generally indicated at 21. In this form the upper member 22 is also cup-like in shape and is provided with an internal thread 23 adjacent its open end. The lower member 24 is part cylindrical and part spherical. The cylindrical part 25 is provided with an external thread to mate with the internal thread 23 on the upper member, and the spherical part 26 is provided with a plurality of perforations 27 through which the powder is dispensed. A centrally disposed area 28 on the exterior side of the centre of the upper member 22 is coated with a layer of adhesive to enable the device to be attached to the undersurface of the lid of a garbage or other refuse bin.

It will be appreciated that the manner in which this form of the device is filled and used is precisely the same as that described in connection with the form of the device shown in Figure 1.

The form of the device shown in the Figure 3 is similar to that shown in Figure 2. The open ends of the upper and lower members 31, 32 are of equal internal and external radius and are arranged to abut in co-axial alignment with each other. A length of adhesive tape 33, is wound round the members in such a way as to cover the line of abutment and to adhere to both members, so as to cause the two members 31, 32 to be retained in their abutting, co-axial relationship. The device is provided with an adhesive layer (not shown) similar to that described in connexion with Fig. 2.

The invention is not restricted to the constructional details of the foregoing examples. For instance, the upper member may be provided with an internally extending flange at its free end and the lower member may be in the form of a dish-shaped lid which is secured to the upper member in the manner of a lever lid. The upper and lower members may be provided with radially extending external flanges and the two members may be secured together by means of a series of bolts. The dispensation apertures of the device may be provided by the apertures in a wire mesh sieve or like perforated sheet material e.g. muslin or gauze. The invention is not restricted to use with household refuse bins, and may be used with any type of garbage bin e.g. a kitchen binette.

What I claim is:—

1. A device for dispensing disinfectant powder in small quantities comprising a container formed in two parts and containing disinfectant powder and having a plurality of powder dispensation apertures in the wall of one part, the container being otherwise closed, and also having means provided on the other of said two parts for attaching the container as a unit to the underside of a movable support member with the dispensation apertures directed downwardly, the attachment means being such that when the container is attached to the support surface the attachment means extend between the upper face of the container and the lower face of the support surface and whereby suitable movements of the support member automatically effect dispensation of the powder.
2. A device as claimed in claim 1, in which the attachment means comprise a suction cap.
3. A device as claimed in claim 2 in which the suction cap is secured to the container by the insertion of an enlarged head on the back of the cap through an aperture in the top wall of the container, that wall of the container being of sufficient rigidity to retain the head in position.
4. A device as claimed in claim 1, in which the attachment means comprise a layer of adhesive.
5. A device as claimed in any one of the preceding claims, in which the said one part is in the form of a cup or dish-shaped member.
6. A device as claimed in claim 5, in which the said one part is secured to the said other part by screw-threaded means.
7. A device as claimed in claim 5, in which the two parts are secured together by a bayonet type connection.
8. A device as claimed in claim 5, in which the two parts are arranged to interfit partly one within the other and are secured together by means of the frictional engagement between the interfitting portions of the parts.
9. A device as claimed in any one of claims 5 to 7 in which the two parts are secured, or further secured, together by means of a length of adhesive tape.
10. A device as claimed in any one of the preceding claims, in which the said dispensation apertures are provided by the apertures in a wire mesh sieve or like perforated sheet material.
11. A device as claimed in any one of the preceding claims in combination with a movable support member.
12. A device as claimed in any one of claims 1 to 11, attached to the underside of the lid of a garbage or other refuse bin.
13. A device for dispensing disinfectant powder substantially as hereinbefore described with reference to, and illustrated in, Figure 1.

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or Figure 2 or Figure 3 of the accompanying drawings.

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PROVISIONAL SPECIFICATION

Improvements in or relating to Dispensing Means

I, CYRIL WALTERS, 274, London Road, Staines, Middlesex, British, do hereby declare this invention to be described in the following statement:—

This is a container with tight fitting or screw lid made in tin, metal, plastic, cardboard, pottery or suchlike material. The lid of container is affixed to inside of bin lids

or such utensils by either rubber suction cap, adhesive, nuts and bolts, riveting and the like. The base of container is perforated with small holes with or without fitted sieve of wire mesh or muslin. This device obtains automatic sprinkling of disinfectant powder each time bin lids are used.

CYRIL WALTERS.

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1 SHEETCOMPLETE SPECIFICATION
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